

Predictive Lossless Coding Of Images And Video

Abstract

Predictive lossless coding provides effective lossless image compression of both
5 photographic and graphics content in image and video media. Predictive lossless coding
can operate on a macroblock basis for compatibility with existing image and video
codecs. Predictive lossless coding chooses and applies one of multiple available
differential pulse-code modulation (DPCM) modes to individual macro-blocks to produce
DPCM residuals having a closer to optimal distribution for run-length, Golomb Rice
10 RLGR entropy encoding. This permits effective lossless entropy encoding despite the
differing characteristics of photographic and graphics image content.